

Alexey Prudnikov

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Personal Information

Date of Birth 16.02.1984 (age 30)
Location Moscow, Russia

Education

2007–2010 **Postgraduate**, *National Research Nuclear University «MEPhI»*.
«**Applied Mathematics and Computer Science**»
2001–2007 **Graduate**, *Moscow Engineering Physics Institute (MEPhI)*.
Degree in «Applied Mathematics and Computer Science»

Work Experience

- 09.2008–
present **Software Developer, Team Lead, System Architect**, *«Open Information Technologies», LLC*,
Moscow, Russia.
Information technologies: software development and integration
Responsibilities:
- Design and develop «Social Insurance» information system, which is used by Fund of Social Insurance (FSI) — big government structure of Russian Federation, as system architect and co-project manager.
 - Design, develop and optimize for highload FSI internet portal as system architect of full-text search and lead OLAP-developer.
 - Design, develop and optimize for highload FSI web-service to process digital signed financial statements as system architect.
 - Design and develop framework, which is used for interaction between common ERP systems and converter of financial reports from Russian national standards to IFRS and GAAP, as lead developer.
 - Design and develop electronic payment processing system as system architect.
 - Design and develop application server to process information about copyright and related rights in intellectual property as system architect.
- 09.2007–
07.2013 **Research/Teaching Associate**, *National Research Nuclear University «MEPhI»,
«Information Systems and Technologies» department*, Moscow, Russia.
Science and education
Responsibilities:
- Teaching experience:
 - «Algorithms and Data Structures» (lections and labs);
 - «Programming Languages and Compilers» (lections and labs);
 - «Optimization Methods» (lections and labs);
 - «Numerical Computing» (labs);
 - «Game Theory and Operation Research» (lections).
 - Supervise course work and assignments of undergraduate students.
 - Participate in department's research work.
 - Create and deliver tutorial and lab session material for undergraduate students.
- 10.2005–
09.2008 **Software Developer**, *«New information systems and technologies», JSC*, Moscow, Russia.
Information technologies: software development and integration
Responsibilities:
- Design and develop «Social Insurance» information system, which is used by Fund of Social Insurance (FSI) — big government structure of Russian Federation, as lead developer.
 - Design and develop FSI internet portal as lead OLAP-developer and software architect of application for delivery financial statements from insurants to FSI.

Certifications

- 2014 **Oracle 1Z0-803**, «OCAJP — Oracle Certified Associate Java SE 7 Programmer».
- 2014 **Red Hat EX300**, «RHCE — Red Hat Certified Engineer».
- 2013 **Red Hat EX200**, «RHCSA — Red Hat Certified System Administrator».
- 2012 **IBM 000-730**, «IBM Certified Database Associate — DB2 9 Fundamentals».
- 2012 **IBM 000-302**, «IBM Certified Academic Associate — DB2 9 Database and Application Fundamentals».

Professional Skills

OS	Linux (RedHat-based), Windows, FreeBSD
Languages	PHP, Java, SQL, C, Delphi
DBMS	MySQL, PostgreSQL, MongoDB, HyTech, DB2
VCS	Subversion, Git
CI	Jenkins
Project Management	Redmine, MediaWiki
Numerical Computing	Octave, Scilab
Markup	LaTeX, HTML, CSS

Personal Skills

- Full cycle software development experience — business analysis, design, development, deploy and user training.
- Design software with systematic approach.
- Use free software to minimize total cost of development.
- Thoroughness with documents, records and acts.
- Business relations and negotiations with customers (including government).
- Preparation of reports, speeches and presentations to an audience, participation in conferences and seminars as a speaker.
- Excellent oral and written Russian language.
- Continuous professional development, lifelong learn.
- Organized, punctual, non-conflict nature.

Trainings

- 2014-2015 «**Data Science**», *Johns Hopkins University*, [MOOC](#).
- 2014 «**MongoDB for Java Developers**», *MongoDB University*, [MOOC](#).
- 2014 «**Bioinformatics Algorithms (Part 1)**», *University of California, San Diego*, [MOOC](#).
- 2013 «**Functional Programming Principles in Scala**», *École Polytechnique Fédérale de Lausanne*, [MOOC](#).
- 2013 «**Discrete Optimization**», *University of Melbourne*, [MOOC](#).
- 2013 **RH254 «Red Hat System Administration III**», *Red Hat Certified Training Partner «Inventa»*.
- 2013 «**Hardware/Software Interface**», *University of Washington*, [MOOC](#).
- 2013 «**Pattern-Oriented Software Architectures for Concurrent and Networked Software**», *Vanderbilt University*, [MOOC](#).
- 2013 «**Linear and Discrete Optimization**», *École Polytechnique Fédérale de Lausanne*, [MOOC](#).
- 2013 **RH134 «Red Hat System Administration II**», *Red Hat Certified Training Partner «Inventa»*.
- 2013 **RH124 «Red Hat System Administration I**», *Red Hat Certified Training Partner «Inventa»*.
- 2013 «**Game Theory**», *Stanford University & University of British Columbia*, [MOOC](#).
- 2013 «**Algorithms: Design and Analysis, Part II**», *Stanford University*, [MOOC](#).
- 2012 «**Quantum Mechanics and Quantum Computation**», *University of California, Berkeley*, [MOOC](#).
- 2012 «**Machine Learning**», *Stanford University*, [MOOC](#).

- 2012 «**Automata**», Stanford University, [MOOC](#).
2012 «**Algorithms: Design and Analysis, Part I**», Stanford University, [MOOC](#).
2010 «**Open Information Systems Security**», NRNU MEPhI.

Languages

- Russian Native speaker
English Reading technical and mathematical papers and books — free, speaking and writing — Intermediate

Publications and Presentations

A. Prudnikov. Approaches to the protection of payment card fraud on the internet. In *Science session NRNU MEPhI-2013. Abstracts in three volumes*, volume 2, page 221, M., 2013. NRNU MEPhI.

Yu. Grankin, D. Kovalev, and A. Prudnikov. Framework «sunflower» for rapid java ee-applications development. In *Science session NRNU MEPhI-2012. Abstracts in three volumes*, volume 2, page 241, M., 2012. NRNU MEPhI.

A. Prudnikov. Full-text search integration to the hytech dbms. In *Science session NRNU MEPhI-2010. XIII conference «Young people and science»: abstracts in three volumes*, volume 2, pages 161–162, M., 2010. NRNU MEPhI.

A. Prudnikov and M. Markovskiy. Steganalysis methods of digital images. In *Science session NRNU MEPhI-2009: proceedings in six volumes*, volume V, pages 67–70, M., 2009. NRNU MEPhI.

A. Prudnikov. Analysis for the presence of hiding information in databases. In *Information systems and technologies 2009. II scientific and technical conference of students, postgraduates and young professionals: abstracts*, pages 162–163, Obninsk, 2009. IATE.

A. Prudnikov. Problems and practice in digital steganography. In *Science session MEPhI-2008. XI conference «Young people and science»: abstracts in two volumes*, volume 1, pages 72–73, M., 2008. MEPhI.

A. Prudnikov. Methods of text steganography. In *Science session MEPhI-2008. XI conference «Young people and science»: abstracts in two volumes*, volume 1, pages 74–75, M., 2008. MEPhI.

A. Prudnikov. Automation of interaction of insurants and fund of social insurance of the russian federation regarding delivery of the accounting reports. In *Science session MEPhI-2007. Abstracts in seventeen volumes*, volume 16. Conference «Young people and science», pages 105–106, M., 2007. MEPhI.